

WHAT IS CLAIMED IS:

1. A hydropneumatic suspension system for a vehicle having a level control, the system comprising:

a pressurized oil pump;

a reservoir;

a first 2/2 directional control valve in fluid communication with the pressurized oil pump and configured to adjust a level position of the suspension system upward; and

a second 2/2 directional control in fluid communication with the reservoir and configured to adjust the level position downward.

2. The hydropneumatic suspension system as recited in claim 1, wherein the first and second 2/2 directional control valves are directional seat valves.

3. The hydropneumatic suspension system as recited in claim 1, further comprising an annular-space suspension circuit, a pressure line connecting the first 2/2 directional control valve to the annular-space suspension circuit, and a pressure-controlled 2/2 directional flow-control spool valve disposed in the pressure line.

4. The hydropneumatic suspension system as recited in claim 3, further comprising a non-return valve and a throttle disposed in the pressure line downstream from the 2/2 directional flow-control spool.

5. The hydropneumatic suspension system as recited in claim 3, further comprising a relief line in the annular-space suspension circuit and a pressure-limiting valve disposed in relief line.

6. The hydropneumatic suspension system as recited in claim 5, wherein the relief line of the annular-space suspension circuit includes bypass line by-passing the pressure-limiting valve, the relief line including a blocking valve.

7. The hydropneumatic suspension system as recited in claim 6, wherein the pressure-limiting valve has an opening pressure and the flow-control spool valve has a blocking

pressure, the opening pressure and the blocking pressure relating to one another in such a way that a predefined annular-space pressure level defines the level position.

8. The hydropneumatic suspension system as recited in claim 7, wherein the opening pressure corresponds to an upper pressure-limiting value of the suspension system, and the blocking pressure corresponds to a lower pressure-limiting value of the suspension system.

9. The hydropneumatic suspension system as recited in claim 1, wherein the vehicle is a tractor and wherein the level position corresponds to a front axle of the tractor.